

ABSTRACT

In a doppler type ultrasonic flow meter 1 for measuring the volumetric flow of a measurement object fluid 10 using doppler shift of ultrasound, 1 pair of ultrasonic transducers 3a, 3b perform transmission of ultrasound and reception of an ultrasound echo resulting from the ultrasound being reflected. The 1 pair of ultrasonic transducers 3a, 3b are disposed on an extension line of a measurement line ML for performing measurement of doppler shift, symmetrical about the center axis 5 of a pipe 2 with a measurement object fluid 10 flowing through its inside, and on the outside of the pipe 2. A flow profile for the side opposite, with respect to the center axis 5 of the pipe 2, the side on which the respective ultrasonic transducer 3a, 3b is disposed is used for the calculation of the volumetric flow of the measurement object fluid 10.